



Do you have a problem with:

- Insufficient livestock feed
- Cost of buying livestock feed
- Poor feed quality
- Weed, insect, or disease problems
- Poor soil tilth (soil workability)

A crop rotation can address these problems and provide your livestock with the types and quantities of feed needed for your livestock operation.

Benefits of a rotation to provide livestock feed:

- Reduce feed costs
- Improve feed quality and quantity
- Provide a better income
- Manage pests and recycle nutrients
- Enhance soil tilth and workability
- Reduce runoff and erosion
- Provide better distribution of labor during the crop season by using different crops, planting dates, and harvest periods

Costs:

Generally there is no capital cost to establish the rotation. However, time may be required to plan and maintain the rotation best suited for your needs.



Confined livestock require quality feed. A rotation designed to fit your livestock operation can provide the feed with little or no off-farm feed purchase.



Growing your own forage can provide high quality feed and reduce your out-of-pocket feed costs.



A well-planned rotation can provide the needed grain and forage for a livestock operation as well as cash crop.

Rotations for Livestock Feed

Crop Rotation Planning Considerations:

- Determine livestock feed requirements.
- Choose the crops/varieties to meet livestock feed needs and other producer objectives.
- Identify soil erosion, nutrient, and soil health concerns.
- Soil test (every 3-5 years) for pH, organic matter, and nutrients. Use soil test recommendations to adjust pH and nutrient levels for optimum crop yields and quality.
- If manure is used, develop a manure management plan to utilize the manure nutrients.
- Evaluate and modify the planting sequence annually based on the identified concerns.
- Attend training needed for crop and soil management and pest scouting.
- Evaluate cover crop needs.

Practice Application:

1. Using a map, lay out a rotation for the crops by year for the length of the rotation.
2. Plan the rotation for the operation to establish a nearly equal acreage for each crop each year.

Crop Rotation Maintenance:

- Periodic soil testing
- Crop and pest scouting
- Evaluate cropping sequence for feed needs and soil concerns
- Calibrate sprayers, planters, and fertilizer applicators to:
 - set rate of applications
 - establish uniform distributions
 - provide uniform seeding depths.



Rotations can be designed to provide the mix of grain and forages needed for the farm operation.

Corn Grain - Yr 1		
Oats - Yr 2		Field 1 Crops
Hay - Yr 3		9.3
Hay - Yr 4		
Oats - Yr 1		Field 2 Crops
Hay - Yr 2		9.7
Hay - Yr 3		
Corn Grain - Yr 4		
Hay - Yr 1		Field 3 Crops
Hay - Yr 2		9.7
Corn Grain - Yr 3		
Oats - Yr 4		
Farm HQ's	Hay - Yr 1	
3.2	Corn Grain - Yr 2	
	Oats - Yr 3	Field 4 Crops
	Hay - Yr 4	7.5

Example 4 year rotation: Corn – Oats – Hay – Hay

Rotations for Livestock Feed



A rotation can not only produce your feed, but can balance your farm labor requirements throughout the year.



*Planning is the key to a good rotation system.
Assistance to help plan your system is available from
the NRCS*



*Multiple crop rotations can better utilize manure for
nutrients*

Help is Available

CONSERVATION SOLUTIONS FOR YOUR PENNSYLVANIA FARM

Technical Help Is Available

Your local Natural Resources Conservation Service (NRCS) office has experienced conservationists that can assist you to plan and implement a rotation to provide your livestock feed needs. They can also help you develop a Conservation Plan to solve other problems you have identified on your farm.

There is no charge for our assistance. Simply call your local office at the number listed below to set up an appointment and we will come to your farm.

You may also be eligible to receive financial assistance, through a state or federal program. Your NRCS office will explain any programs that are available so you can make the best decision for your operation. All NRCS programs and services are voluntary.



Helping People—Help the Land

NRCS FIELD OFFICES:

Adams: 717-334-2317 ext 3
Allegheny: 717-482-4800 ext 3
Armstrong: 724-545-1022 ext 3
Beaver: 724-482-4800 ext 3
Bedford: 814-623-7900 ext 3
Berks: 610-372-4655 ext 3
Blair: 814-695-6291 ext 3
Bradford: 570-265-6969 ext 3
Bucks: 215-453-9527 ext 3
Butler: 724-482-4800 ext 3
Cambria: 814-472-5502 ext 3
Cameron: 814-375-2125 ext 3
Carbon: 610-625-8392 ext 3
Centre: 570-726-3196 ext 3
Chester: 610-696-0398 ext 3
Clarion: 814-226-8160 ext 3
Clearfield: 814-375-2125 ext 3
Clinton: 570-726-3196 ext 3
Columbia: 570-784-1062 ext 3
Crawford: 814-724-1852 ext 3
Cumberland: 717-249-1037 ext 3

Dauphin: 717-921-2380 ext 3
Delaware: 610-696-0398 ext 3
Elk: 814-375-2125 ext 3
Erie: 814-796-6760 ext 3
Fayette: 724-437-7971 ext 3
Forest: 814-226-8160 ext 3
Franklin: 717-264-8074 ext 3
Fulton: 717-485-3812 ext 3
Greene: 724-627-5821
Huntingdon: 814-627-1626 ext 3
Indiana: 727-463-8547 ext 3
Jefferson: 814-375-2125 ext 3
Juniata: 717-436-8953 ext 3
Lackawanna: 570-282-8732 ext 3
Lancaster: 717-299-5361 ext 3
Lawrence: 724-652-5811
Lebanon: 717-272-3908 ext 3
Lehigh: 610-625-8392 ext 3
Luzerne: 570-799-0645 ext 3
Lycoming: 570-433-3902 ext 3
McKean: 814-274-8166 ext 3
Mercer: 724-662-3740 ext 3
Mifflin: 717-248-9541 ext 3

Monroe: 610-625-8392 ext 3
Montgomery: 610-372-4655 ext 3
Northampton: 610-625-8392 ext 3
Northumberland: 570-286-7114 ext 3
Perry: 717-582-4144 ext 3
Pike: 570-282-8732 ext 3
Potter: 814-274-8166 ext 3
Schuylkill: 570-622-1312 ext 3
Snyder: 570-837-0007 ext 3
Somerset: 814-445-6876 ext 3
Sullivan: 570-836-2490 ext 3
Susquehanna: 570-278-1011 ext 3
Tioga: 570-724-1726 ext 3
Union: 570-523-3280
Warren: 814-563-3125
Washington: 724-222-3060 ext 3
Wayne: 570-282-8732 ext 3
Westmoreland: 724-834-3970 ext 3
Wyoming: 570-836-2490 ext 3
Venago: 814-437-2473 ext 3
York: 717-755-2966 ext 3